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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/838,700	04/19/2001	Srivatsa Venkatasubbarao	00/200	8776	
32605 7.	590 02/09/2005		EXAMINER		
MACPHERSON KWOK CHEN & HEID LLP 1762 TECHNOLOGY DRIVE, SUITE 226 SAN JOSE, CA 95110			РНАМ,	PHAM, HOA Q	
			ART UNIT	PAPER NUMBER	
,			2877	· · · · · · · · · · · · · · · · · · ·	
			DATE MAILED: 02/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)				
Office Action Commons	09/838,700	VENKATASUBBARAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoa Q. Pham	2877				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 10 No	ovember 2004.	•				
2a) ☐ This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) <u>8-20</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.	•				
10)⊠ The drawing(s) filed on <u>19 April 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s) 1) Notice of References Cited (PTO-892)	A) Intensions Summer	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>9/04 and 12/01</u> .	о, <u>—</u> опет					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of the invention elected in the reply filed on 11/10/04 is acknowledged. The traversal is on the ground(s) that claim 1 is generic. This is not found persuasive because species (a) including claims 1-7 are corresponding to figure 4 relate to transparent slide and species (b) including claims 9-10 relate to figure 2 recites a TIR structure having a TIR surface. Thus, claim 1 is not generic.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. The drawings filed on 4/19/01 have been approved.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner et al (6,475,809).

Regarding claims 1, 3, 6 and 7; Wagner et al discloses a protein array having a substrate which processes a ultraflat surface with a mean roughness less than about 5

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angstroms (column 3, lines 50-55), thus it inherent that the surface roughness of less than the height of molecules in the spots on the surface. Wagner et al does not explicitly teach that the substrate is a transparent slide or a prism; however, it would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the substrate of Wagner et al by a transparent substrate because they would function in the same manner. A substitution one for another is generally recognized as being within the level of ordinary skill in the art.

Regarding claim 2, figure 9 teaches the use of a arc lamp (25) for exciting the sample and camera (27) for imaging interaction of immobilized proteins of an array with an analyte.

Regarding claims 4-5, since wagner et al teaches that the roughness less than 5 angstroms; thus, it is inherent that the roughness is sufficiently low enough to allow resolution of molecules in the spots and lower than the change in height after a binding reaction.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ellson (6,806,051) discloses a method for using a an oligonucleotide array.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa Q. Pham whose telephone number is (571) 272-

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2426. The examiner can normally be reached on 7:30AM to 6 PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hốa Q. Pham Primary Examiner Art Unit 2877

HP February